Panasonic®

Operating Instructions

Portable DVD/CD Player

Model No. **DVD-LS50**
DVD-LS55

Dear customer

Thank you for purchasing this product.
For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Region number
The player plays DVD-Video marked with labels containing the region number or "**ALL**".

Region	Number
For the United Kingdom and Continental Europe	2
For Asia	3
For Australia and N.Z.	4
For Russia	5

Example: For the United Kingdom and Continental Europe

Operations in these instructions are described mainly with the main unit, but you can do the operations on the remote control if the remote controls are the same (➜ back cover)

Unless otherwise indicated, illustrations in these operating instructions are of DVD-LS50.

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Note **"EB" on the packaging indicates the United Kingdom.**

EB EG GCS GN EE

RQT7424-1B

Caution for AC Mains Lead

(For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.
This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ◈ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/ YELLOW.

THIS PLUG IS NOT WATERPROOF— KEEP DRY.

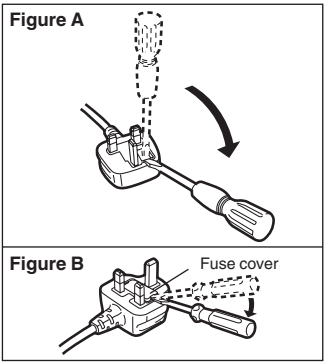
Before use

Remove the connector cover.

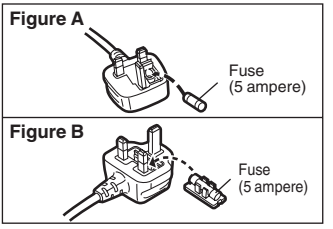
How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



2. Replace the fuse and close or attach the fuse cover.



CAUTION!

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

CAUTION!

- **DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.**
- **DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.**
- **DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.**
- **DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.**

Marking sign is located on bottom of the unit.

The socket outlet shall be installed near the equipment and easily accessible or the mains plug or an appliance coupler shall remain readily operable.

This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.

For the United Kingdom, Continental Europe, Russia, Australia and N.Z.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

For Asia

THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.

Precautions

Read these operating instructions carefully before using the unit. Follow the safety instructions on the unit and the applicable safety instructions listed below. Keep these operating instructions handy for future reference.

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Protect the AC mains lead from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10) Only use attachments/accessories specified by the manufacturer.
11) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

12) Unplug this apparatus during lightning storms or when unused for long periods of time.
13) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as AC mains lead or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Batteries

1.Battery pack (Lithium ion battery pack)
- Use this unit to recharge the battery pack.
- Do not use the battery pack with equipment other than the specified player.
- Do not use the player outside if it is snowing or raining. (The battery pack is not waterproof.)
- Do not get dirt, sand, liquids, or other foreign matter on the terminals.
- Do not touch the plug terminals (+ and −) with metal objects.
- Do not disassemble, remodel, heat or throw into fire.
- Do not store the battery pack in temperature over 60 °C.

2.Button-type battery (Lithium battery)
- Insert with poles aligned.
- Do not touch the terminals (+ and −) with metal objects.
- Do not disassemble, remodel, heat or throw into fire.
- Keep out of reach of children.

If any electrolyte should come into contact with your hands or clothes, wash it off thoroughly with water.
If any electrolyte should come into contact with your eyes, never rub the eyes.
Rinse eyes thoroughly with water, and then consult a doctor.

3.Disposing of the batteries
Check and follow your local regulations before disposal.

CAUTION!
DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED.

REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

AC adaptor

This AC adaptor operates on AC between 100 V and 240 V.
But
- Obtain a suitable plug adaptor if the plug does not fit the AC mains socket.

To prevent damage

Avoid the following;
- Spraying flammable insecticides near the unit.
- Pressing the LCD.
- Touching the lens and other parts of the laser pickup.

Do not use the unit in the following places;
- Where the temperature is below 5 °C or above 35 °C. (Operating the unit beyond this range can cause the protection circuitry to function and render the unit inoperable.)
- Sandy places such as beaches.
- On top of cushions, sofas, or hot equipment such as amplifiers.

Precautions for Listening with the Headphones or Earphones

- Do not play your headphones or earphones at a high volume. Hearing experts advise against continuous extended play.
- If you experience a ringing in your ears, reduce volume or discontinue use.
- Do not use while operating a motorized vehicle. It may create a traffic hazard and is illegal in many areas.
- You should use extreme caution or temporarily discontinue use in potentially hazardous situations.
- Even if your headphones or earphones are the open-air type designed to let you hear outside sounds, don't turn up the volume so high that you can't hear what's around you.

Do not rest the unit on your lap for a long time while using it. The unit can become hot and cause burns.

For United Kingdom and Republic of Ireland

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www.panasonic.co.uk (for UK customers only)

- Order accessory and consumable items for your product with ease and confidence by telephoning our Customer Care Centre Mon–Friday 9:00am–5:30pm. (Excluding public holidays.)
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- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
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Customer Care Centre
For UK customers: 08705 357357
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Technical Support
For UK customers: 0870 1 505610
This Technical Support Hot Line number is for Panasonic PC software related products only.
For Republic of Ireland, please use the Customer Care Centre number listed above for all enquiries.
For all other product related enquiries, please use the Customer Care Centre numbers listed above.

Discs that can be played

This operating instruction manual uses the following icons such as **RAM**.

DVD RAM RAM4.7	RAM	Recorded using Version 1.1 of the Video Recording Format (a unified video recording standard).	● Recorded with DVD video recorders, DVD video cameras, personal computers, etc. ● Remove discs from their cartridges before use.
	JPEG	Recorded using the DCF (Design rule for Camera File system) standard.	● Recorded with Panasonic DVD-Video recorders. ● To play JPEG files, select “Play as Data Disc” in Other Menu (➜ page 18).
DVD AUDIO	DVD-A	Played on this unit in 2 channels.	
	DVD-V	Some DVD-Audio discs contain DVD-Video content. To play DVD-Video content, select “Play as DVD-Video” in Other Menu (➜ page 18).	
DVD VIDEO DVD VIDEO	DVD-V	—	
DVD R R4.7		Panasonic DVD-R recorded and finalized※ on Panasonic DVD-Video recorders or DVD- Video cameras are played as DVD-Video on this unit.	
COMPACT disc DIGITAL VIDEO	VCD	—	
COMPACT disc SUPER VIDEO		Conforming to IEC62107	
COMPACT disc DIGITAL AUDIO COMPACT disc DIGITAL AUDIO TEXT	CD	—	
—	WMA MP3 JPEG CD VCD	● This unit can play CD-R/RW (audio recording disc) recorded with the formats on the left. Close the sessions or finalize※ the disc after recording. ● **HighMAT discs** WMA, MP3 or JPEG files only. To play without using the HighMAT function, select “Play as Data Disc” in Other Menu (➜ page 18).	

※A process that allows play on compatible equipment.

● It may not be possible to play the above discs in all cases due to the type of disc or condition of the recording.

Discs that cannot be played

DVD-ROM, CD-ROM, CDV, CD-G, DVD+R, +RW, DVD-RW, SACD, Divx Video Discs and Photo CD, DVD-RAM that cannot be removed from their cartridge, 2.6-GB and 5.2-GB DVD-RAM, and “Chaoji VCD” available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

Audio format of DVDs

You can play discs in stereo with these symbols. DOLBY DIGITAL DIGITAL dts SURROUND

Accessories

Use numbers indicated in parentheses when asking for replacement parts.
The included AC mains lead and AC adaptor are for use with this unit only. Do not use them with other equipment.

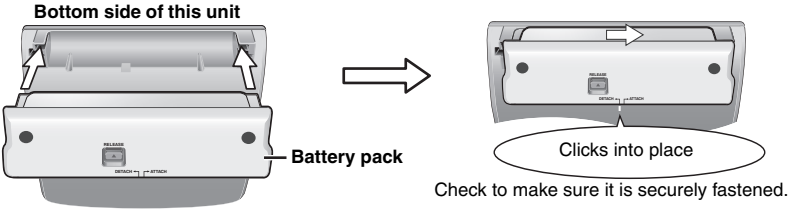
- ☐ **1 Remote control** (N2QAHC000012)
- ☐ **1 Button-type battery** for remote control (for replacement, see page 7)
- ☐ **1 Audio/video cable** (K2KA6CB00003)
- ☐ **1 AC adaptor** (RFEA906W-W)
- ☐ **1 AC mains lead**
  For the United Kingdom (RJA0053-3X)
  For Australia (K2CJ2DA00007)
  For others (RJA0019-2X)
- ☐ **1 Rechargeable battery pack**
  DVD-LS50 (CGR-H701)
  DVD-LS55 (CGR-H703)
  For replacement: Available from Panasonic dealers

Preparations

FOR THE UNITED KINGDOM ONLY
READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 2 BEFORE CONNECTION.

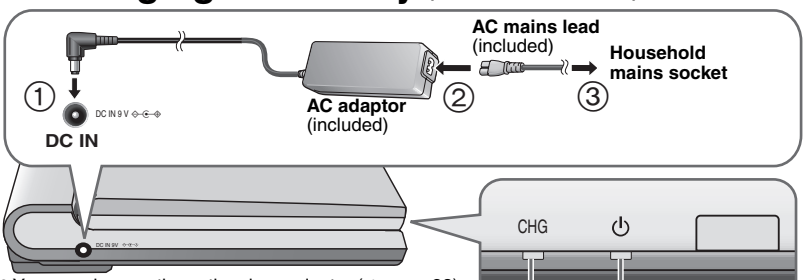
❶ Attaching the battery (When the unit is off)

The illustrations show connection for CGR-H701. Connect CGR-H703 in the same way.



Check to make sure it is securely fastened.

❷ Recharging the battery (When the unit is off)



- You can also use the optional car adaptor (➜ page 23).
- You can also use this unit without charging while connecting the AC adaptor and the AC mains lead.

To conserve power
This unit consumes 0.5 W of power even when turned off. When the unit is not going to be used for a long time, disconnect the AC mains lead from the household mains socket.

Checking the remaining battery charge/Approximate play times/Detaching (➜ page 23)

[⏻] goes out ➜ lights
[CHG] lights ➜ goes out

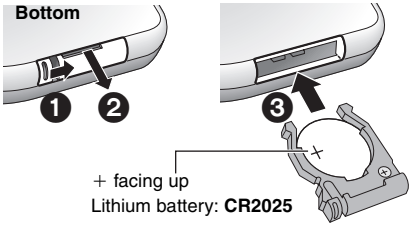
Recharging time:
DVD-LS50: **Approx. 4 hours**
DVD-LS55: **Approx. 7 hours**

When finished, disconnect the AC adaptor and the AC mains lead.

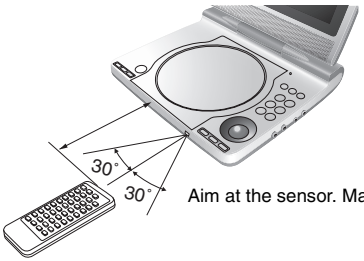
The unit is in the standby condition (the [⏻] indicator lights) when the AC mains lead is connected. The primary circuit is always "live" as long as the AC adaptor is connected to an electrical outlet.

❸ The remote control

Insert the button-type battery (included)

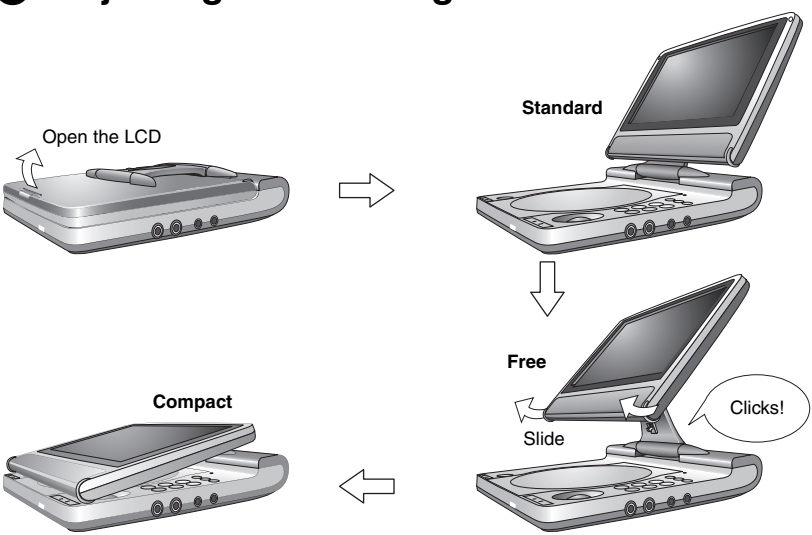


Range of use



Aim at the sensor. Maximum range is up to 7 m.

❹ Adjusting the LCD angle

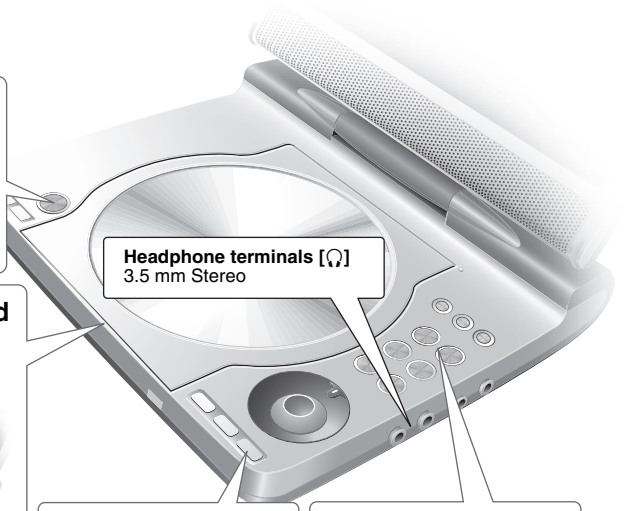


When moving the unit : Close the LCD. Don't hold by the LCD.

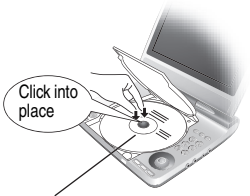
Play

1 Open the lid.

OPEN



2 Insert a disc and close the lid.



For two sided discs, insert the side you want to play with the label facing up.

For DVD-RAM, remove the disc from the cartridge.

3 Press and hold.

ON

The unit turns on and play begins.

4 Adjust the volume.

− VOL +

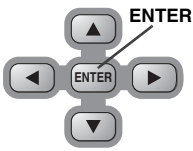
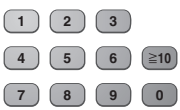
- While stopped, the unit automatically turns off once 15 minutes (after approximately 5 minutes when using the battery pack) have elapsed.
- Discs continue to rotate while menus are displayed. Press **[■, –OFF]** when you finish to preserve the unit's motor.

Main unit operations

ON	**Turn unit on/play**	Press and hold and the power comes on and play begins.
	Pause	Press **[►, ON]** to re-start play.
− OFF	**Stop**	While "▷" is flashing, press **[►, ON]** and play begins from the position where play stopped. ● DVD-V While the message is displayed, press **[►, ON]** and the previous chapters are reviewed. Opening the lid, or pressing **[■, –OFF]** while "▷" is flashing cancels the memorized position where play stopped.
	Turn unit off	Press and hold until "OFF" is displayed.
	Skip	Skips items.

TOP MENU	**Top menu**	DVD-A DVD-V
	Direct navigator	RAM (➜ page 13)
MENU	**Menu**	DVD-V
	Playlist play	RAM (➜ page 13)
	Navigation menu	WMA MP3 JPEG (➜ page 14)
RETURN	**Return**	Returns to the previous screen. VCD (with PBC) Returns to the menu.
SEARCH	**Search**	Turn the shuttle dial. Release the shuttle dial to return to normal play.
	Slow play	Turn the shuttle dial while paused. Press **[▶, ON]** to return to normal play. VCD **[▶▶]** only.
	Menu operation	Use **[▲▼◀ ▶]** to select an item and press [ENTER] to confirm.
	Frame by Frame	While paused, use **[◀ ▶]**. VCD **[▶]** only.
	Group skip	WMA MP3 JPEG Use **[▲▼]**.

Remote control operations

	Turn on/off	You cannot use the remote control to turn the unit on when powered by the battery pack.
	Stop/Pause/Play	(➜ page 8)
	Search (During play)/Slow play (While paused)	(➜ above)
	**Menu operation/ Frame by Frame/ Group skip**	(➜ above)
	**Enter number**	RAM DVD-A DVD-V VCD CD e.g. To select 12: **[≧10] ➜ [1] ➜ [2]** VCD (with PBC) While stopped, press the numbered buttons. WMA MP3 JPEG e.g. To select 123: **[1] ➜ [2] ➜ [3] ➜ [ENTER]**

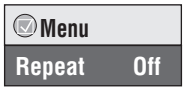
Useful functions

Repeat play

※Can only be used with discs that show the elapsed time display.
For JPEG, you can use even if there is no elapsed time display.

REPEAT

Press to select the content to repeat.



Audio RAM DVD-A DVD-V VCD (For discs recorded with multiple audio)

AUDIO

(Remote control)

Press to change.

RAM VCD

You can use this button to select "L", "R" or "L R".

DVD-V (Karaoke discs)

Press [◄►] to select "On" for "Off" for vocals. Read the disc's instructions for details.

Signal type/data

LPCM/PPCM/DD Digital/DTS/MPEG: Signal type
kHz (Sampling frequency)/bit/ch (Number of channels)

Example: 3/2 .1ch

- .1: Low frequency effect (not displayed if there is no signal)
- 0: No surround
- 1: Mono surround
- 2: Stereo surround (left/right)
- 1: Center
- 2: Front left+Front right
- 3: Front left+Front right+Center

Subtitle RAM (On/Off only) DVD-V (with multiple subtitles) VCD (SVCD only)

SUBTITLE

(Remote control)

Press to change.

To clear/display the subtitles

Press [◄ ►] to select "On" or "Off".

RAM (Only discs that contain subtitle on/off information)

Subtitle on/off information cannot be recorded using Panasonic DVD Recorders. (Subtitle on/off information is also not recordable on Panasonic DVD-R finalized with a Panasonic DVD Recorder.)

Angle select and Still picture rotation

ANGLE

(Remote control)

DVD-V (with multiple angles)–Angle select
JPEG –Still picture rotation

Selecting how to show 4:3 aspect pictures on the LCD

MONITOR MODE

NORMAL:	Normal
FULL:	Stretched horizontally
ZOOM:	Stretched vertically and horizontally
OFF:	No picture

- If you are not using the LCD on this unit, select “OFF” to conserve power. (The [⏻] indicator flashes)
- The LCD turns off automatically if you close it.

Adjusting the picture quality on the LCD

1 PICTURE MODE

2

Use [▲▼] to select the item, and [◄ ►] to change the setting.

BRIGHT
COLOUR
BLUE LED DVD-LS55

Press **[PICTURE MODE]** to cancel the screen.

Advanced Surround RAM DVD-V VCD (Discs with more than 2ch audio)

A surround sound effect can be made using 2 speakers (on other equipment).

- For discs recorded with surround sound signals, the surround signals also appear to be heard from the side.
- Turn the surround feature on the connected equipment off.
- Optimum seating position is 3 to 4 times the distance between the front left and right speakers or the width of the television if using the television speakers.

A.SURROUND

Press to select “SP 1 Natural” or “SP 2 Enhanced”.

DVD-LS55 For Asia

A.SRD

(Remote control)

When **using headphones**, press to select “HP 1 Natural” or “HP 2 Enhanced”.

Changing the play sequences Remote control only

DVD-A DVD-V VCD CD WMA MP3 JPEG

PLAY MODE

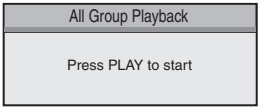
While stopped

Press to change. **All group (DVD-A)→ Program → Random → Normal play**

- Disable HighMAT disc play to use random and program play.
  Select “Play as Data Disc” in Other Menu. (➜ page 18).
- To exit the all group, program or random mode, press **[PLAY MODE]** several times while stopped.

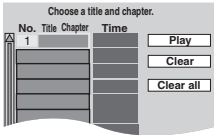
All group play DVD-A

(PLAY)



Program play (Max. 32 items)

e.g.) DVD-Video



1 1 2 3 4 5 6 ≧10 7 8 9 0

Press to select an item (➜ page 9).

To continue selecting, repeat this operation.

2 (PLAY)

Selecting all the items (on the disc or in the title or group)
Press **[ENTER]** and **[▲▼]** to select “ALL”, then press **[ENTER]** again to register.

Changing the program
Press **[▲▼]** to select an item.
–To change an item, repeat step 1.
–To clear an item, press **[CANCEL]** (or select “Clear” and press **[ENTER]**).

Clearing the whole program
Select “Clear all” and press **[ENTER]**. The whole program is also cleared when the unit is turned off or the disc lid is opened.

Random play

e.g.) DVD-Video

1 DVD-A DVD-V WMA MP3 JPEG

1 2 3 4 5 6 ≧10 7 8 9 0

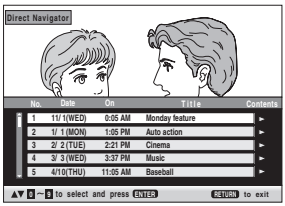
Press to select an item (➜ page 9).

2 (PLAY)

RAM disc play RAM ※You cannot edit titles or playlists on this unit.

Selecting programs to play (DIRECT NAVIGATOR)

1 TOP MENU


Direct Navigator
No. Date On Title Contents
1 11/ 1(WED) 0:05 AM Monday feature
2 1/ 1 (MON) 1:05 PM Auto action
3 2/ 2 (TUE) 2:21 PM Cinema
4 3/ 3 (WED) 3:37 PM Music
5 4/10(THU) 11:05 AM Baseball
▲▼ 0 ~ 9 to select and press ENTER
RETURN to exit

2 ENTER

Use [▲▼] to select the program and press [ENTER].

- You can also use **the numbered buttons** on the remote control (➜ page 9).
- Use **[►]** to show the contents of the program.

- To cancel the menu, press **[TOP MENU]**.

Playlist play ※Only for discs created with playlists

1 MENU

Playlist
No. Date Length Title
1 11/1 0:00:01 City Penguin
2 1/1 0:01:20 Ashley at Prom
3 2/2 1:10:04 Formula one
4 3/3 0:10:20 Soccer
5 4/10 0:00:01 Baseball
6 4/11 0:00:01 City Penguin
7 4/15 0:01:19 Ashley at Prom
8 4/17 0:13:22 Formula one
9 4/20 0:05:30 Soccer
10 4/22 0:07:29 Baseball
▲▼ 0 ~ 9 to select and press ENTER
RETURN to exit

2 ENTER

Use [▲▼] to select the playlist and press [ENTER].

You can also use **the numbered buttons** on the remote control (➜ page 9).

- To cancel the menu, press **[MENU]**.

Playing a HighMAT™ CD WMA MP3 JPEG

ENTER

While the menu is displayed

Use [▲▼◄ ►] to select items and press [ENTER].

Menu:
Takes you to the next menu which shows playlists or another menu.

Playlist:
Play starts.

- To return to the menu, press **[TOP MENU]**.
- To change to the menu background recorded on disc, press **[DISPLAY]** while the menu is displayed.

Selecting from the list menu to play

1. During play, press **[MENU].**
2. Use **[◄]** then **[▲▼]** to change the list.
3. Use **[►]** then **[▲▼]** to select an item and press **[ENTER].**

- To cancel the menu, press **[MENU]**.

HIGH MAT AUDIO•IMAGE

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Playing data discs WMA MP3 JPEG

You can play JPEG files on DVD-RAM or play HighMAT discs without using the HighMAT function (➜ page 18, “Play as Data Disc” in Other Menu).

Using playback menus (except JPEG files on DVD-RAM)

While the menu is displayed

Use [▲▼] to select “All”, “Audio”, or “Picture” and press [ENTER].

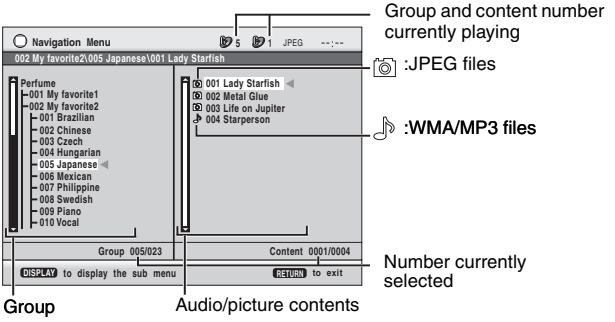
To display/exit the screen
Press **[TOP MENU]**.

Using navigation menus

1 MENU

2

Use [▲▼◄►] to select the group or audio/picture content and press [ENTER].



- **To enjoy listening to WMA/MP3 contents while showing a JPEG image on the screen**
  Select a JPEG file first, and then select audio contents. (The opposite order is not effective.)
- **To exit the screen**
  Press **[MENU]**.

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Using the submenu

While the navigation menu (➜ see left) is displayed.

1 DISPLAY

2

Use [▲▼] to select the submenu (➜ see below) **and press [ENTER].**

Submenu

✓**Multi**	Groups and content
List	Content only
Tree	Groups only
Thumbnail	Thumbnail images JPEG
Next group	To the next group WMA MP3
Previous group	To the previous group WMA MP3
All	WMA/MP3 and JPEG files
Audio	WMA/MP3 files only
Picture	JPEG files only
Help display	To switch between guide messages and the elapsed play time indicator
Find	To search by content or group title (➜ see below)

Searching by a content or group title

Place the cursor on the group title to search a group, or place the cursor on the content title to search content.

1 Select "Find" (➜ see above)**.**

2 Use [▲▼] to select a character and press [ENTER].

- Repeat to enter another character.
- Lower case is also searched.
- Use **[◀◀ ▶▶]** to skip between A, E, I, O and U.
- Use **[◀]** to erase a character.
- Erase the asterisk (∗) to search for the titles starting with that character.

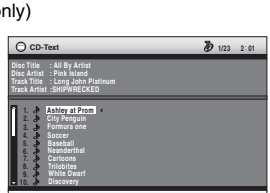
3 Use [▶] to select "Find" and press [ENTER].
The search result screen appears.

4 Use [▲▼] to select the content or group and press [ENTER].

Using the contents screen to find a track

CD (CD text only)

1 MENU



2

Use [▲▼] to move through the tracks and press [ENTER].

Operating with GUI screens

1 DISPLAY **Press once.**

2

①Use [▲▼] to select the menu.
②Use [►] to go to the next menu and [▲▼] to set.

- Use **[◄]** to go to the previous menu
- Items shown differ depending on the type of software.
- There are items which you can select using **the numbered buttons** and **[ENTER]** on the remote control.
- If the setting does not change, press **[ENTER]**.
- To finish, press **[RETURN]**.

Main menus

Program, Group, Title Chapter, Track, Playlist Content	**To start from a specific item**
Time	**To skip incrementally or decrementally (Time Slip for play only)** 1 Press **[ENTER]** twice to show Time Slip indicator. 2. Use [▲ ▼] to select the time and press **[ENTER]**. ●Move and hold **[▲▼]** to alter faster. **To start from a specific time (Time Search)** **To change remaining/elapsed time display**
Audio	(➜ page 10)
	To display the current bitrate or sampling frequency
Still Picture	**Still picture advance**
Thumbnail	**To show thumbnail images**
Subtitle	(➜ page 10)
Marker(VR)	**To recall a marker recorded on DVD-Video recorders**
Angle	(➜ page 10)
Rotate picture	(➜ page 10)
Slideshow	**To turn on/off slideshow** **To change the slideshow timing (0–30 sec)**

Other Settings

Play Speed	**Changing play speed** –from ×0.6 to ×1.4 (in 0.1 units) ●After you change the speed –Digital output switches to PCM-2ch. –Sampling frequency of 96 kHz is converted to 48 kHz. ●**To return to normal play** Press **[►]** (PLAY).

Play Menu (Only when the elapsed play time can be displayed / JPEG: Works with all JPEG content.)

Repeat	(➜ page 10)
A-B Repeat	**To repeat a specified section** Press **[ENTER]** at the starting and ending points. Press again to cancel.
Marker	**To mark up to 5 positions to play again** **[ENTER]** (The unit is now ready to accept markers.) To mark a position: **[ENTER]** (at the desired point) To mark another position: **[◄ ►] ➜ [ENTER]** To recall a marker: **[◄ ►] ➜ [ENTER]** To erase a marker: **[◄ ►]➜ [CANCEL]** (Remote control) ● This feature doesn't work during Program and Random play.

Picture Menu

Picture Mode	**Normal** **Cinema1:** Mellows images and enhances detail in dark scenes. **Cinema2:** Sharpens images and enhances detail in dark scenes.

Audio Menu

Advanced Surround	(➜ page 11)
Dialogue Enhancer	**To make the dialogue in movies easier to hear** DVD-V **(**Dolby Digital, DTS, 3-channel or over, with the dialogue recorded in the center channel) **On ⟷ Off**

Display Menu

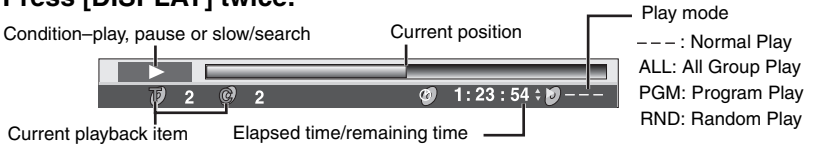
Information	**On ⟷ Off** (JPEG: **Off, Date, Details**)
Subtitle Position	**0 to −60 (in 2 units)**
Subtitle Brightness	**Auto, 0 to −7**
Just Fit Zoom	RAM DVD-V VCD To expand the letterbox picture to fit the screen. Use **[▲▼]** to select the preset aspect ratio or "Auto".
Manual Zoom	RAM DVD-V VCD Use **[▲▼]** for fine adjustments. –from ×1.00 to ×1.60 (in 0.01 units) –from ×1.60 to ×2.00 (in 0.02 units)
Bitrate Display	RAM DVD-V VCD **On ⟷ Off**
GUI See-through	**On ⟷ Off**

Other Menu

Setup	(➜ page 19)
Play as DVD-Video or **Play as DVD-Audio**	● While stopped, select “Play as DVD-Video” to play DVD-Video contents on DVD-Audio.
Play as DVD-VR **Play as HighMAT** or **Play as Data Disc**	● While stopped, select “Play as Data Disc” to play JPEG files on DVD-RAM or to play a HighMAT disc without using the HighMAT function.

Checking the play status (Elapsed play time indicator)

Press [DISPLAY] twice.



Use **[▲ ▼]** to change. (WMA/MP3/SVCD can only display elapsed time.)

● To exit, press **[RETURN].**

Language code list

Abkhazian:	6566	Chinese:	9072	Hindi:	7273	Malagasy:	7771	Samoan:	8377	Tibetan:	6679
Afar:	6565	Corsican:	6779	Hungarian:	7285	Malay:	7783	Sanskrit:	8365	Tigrinya:	8473
Afrikaans:	6570	Croatian:	7282	Icelandic:	7383	Malayalam:	7776	Scots Gaelic:		Tonga:	8479
Albanian:	8381	Czech:	6783	Indonesian:	7378	Maltese:	7784		7168	Turkish:	8482
Ameharic:	6577	Danish:	6865	Interlingua:	7365	Maori:	7773	Serbian:	8382	Turkmen:	8475
Arabic:	6582	Dutch:	7876	Irish:	7165	Marathi:	7782	Serbo-Croatian:		Twi:	8487
Armenian:	7289	English:	6978	Italian:	7384	Moldavian:	7779		8372	Ukrainian:	8575
Assamese:	6583	Esperanto:	6979	Japanese:	7465	Mongolian:	7778	Shona:	8378	Urdu:	8582
Aymara:	6588	Estonian:	6984	Javanese:	7487	Nauru:	7865	Sindhi:	8368	Uzbek:	8590
Azerbaijani:	6590	Faroese:	7079	Kannada:	7578	Nepali:	7869	Singhalese:	8373	Vietnamese:	
Bashkir:	6665	Fiji:	7074	Kashmiri:	7583	Norwegian:	7879	Slovak:	8375		8673
Basque:	6985	Finnish:	7073	Kazakh:	7575	Oriya:	7982	Slovenian:	8376	Volapük:	8679
Bengali; Bangla:		French:	7082	Kirghiz:	7589	Pashto, Pushto:		Somali:	8379	Welsh:	6789
	6678	Frisian:	7089	Korean:	7579		8083	Spanish:	6983	Wolof:	8779
Bhutani:	6890	Galician:	7176	Kurdish:	7585	Persian:	7065	Sundanese:	8385	Xhosa:	8872
Bihari:	6672	Georgian:	7565	Laotian:	7679	Polish:	8076	Swahili:	8387	Yiddish:	7473
Breton:	6682	German:	6869	Latin:	7665	Portuguese:	8084	Swedish:	8386	Yoruba:	8979
Bulgarian:	6671	Greek:	6976	Latvian, Lettish:		Punjabi:	8065	Tagalog:	8476	Zulu:	9085
Burmese:	7789	Greenlandic:	7576		7686	Quechua:	8185	Tajik:	8471		
Byelorussian:		Guarani:	7178	Lingala:	7678	Rhaeto-Romance:		Tamil:	8465		
	6669	Gujarati:	7185	Lithuanian:	7684		8277	Tatar:	8484		
Cambodian:	7577	Hausa:	7265	Macedonian:		Romanian:	8279	Telugu:	8469		
Catalan:	6765	Hebrew:	7387		7775	Russian:	8285	Thai:	8472		

Changing the player settings

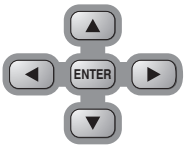
- Referring to pages 19 to 21, change as required.
- Underlined items are the factory presets.

The settings remain intact even if you switch the unit to standby.

1 SETUP

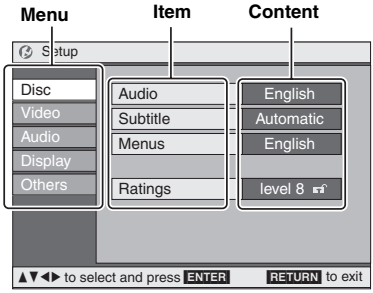
(Remote control)

2



(Remote control)

Press [▲ ▼ ◄ ►] to select the menu, item, content and press [ENTER].



- To return to the previous screen, press **[RETURN]**.
- To finish the Setup menu, press **[SETUP]**.
- While stopped, the menu is also displayed when **[MENU]** on the main unit is pressed, however, when a DVD-RAM or HighMAT CD is being used a playlist menu appears.

Disc

Audio	● English ● Original ※1 ● Other ∗∗∗∗※3	**Language Options** ● French ● German ● Italian ● Spanish ● Portuguese ● Swedish ● Dutch **For Asia** ● French ● Spanish
Subtitle	● Automatic※2 ● English ● Other ∗∗∗∗※3	
Menus	● English ● Other ∗∗∗∗※3	
Ratings Set a ratings level to limit DVD-Video play.	● 8 No Limit. ● 1 to 7: Prohibits play corresponding to ratings recorded on the disc. ● 0 Lock All: To prevent play of discs without ratings levels. Once level 0 to 7 is set, a password entry screen is displayed. Follow the on-screen instructions. **Do not forget your password.** ● When you insert a disc that exceeds the ratings limit, a message appears on the screen. Follow the on-screen instructions.	

※1 The original language designed on the disc is selected.

※2 If the language selected for "Audio" is not available, subtitles appear in that language (If available on the disc).

※3 Input a code number referring to the table on page 18.

Video

TV Aspect Choose the setting to suit your television and preference.	● 4:3 Pan&Scan: Regular aspect television (4:3) The sides of the widescreen picture are cut off so it fills the screen (unless prohibited by the disc). ● 4:3 Letterbox: Regular aspect television (4:3) Widescreen picture is shown in the letterbox style. ● 16:9: Widescreen television Use the television's screen modes to change the way the picture is shown.
Still Mode Specify the type of picture shown when paused.	● Automatic ● Field: The picture is not blurred, but picture quality is lower. ● Frame: Overall quality is high, but the picture may appear blurred.
NTSC Disc Output Choose PAL 60 or NTSC output when playing NTSC discs.	● PAL60: When connected to a PAL television ● NTSC: When connected to an NTSC television

Audio

PCM Digital Output (Only when connected using a digital optical cable ➜ page 21)	Check the digital input limitations of the equipment you connect and select the maximum sampling frequency of PCM digital output. Off: When not connected using a digital optical cable Up to 48 kHz: When connected to equipment compatible with 44.1 or 48 kHz Up to 96 kHz: When connected to equipment compatible with 88.2 or 96 kHz Up to 192 kHz: When connected to equipment compatible with 176.4 or 192 kHz ● Signals from copy-protected discs are converted to 48 or 44.1 kHz. ● Some equipment cannot handle sampling frequencies of 88.2 kHz, even if they can handle 96 kHz. Read your equipment's operating instructions for details.	
Dolby Digital (Only when connected using a digital optical cable ➜ page 21)	● Bitstream ● PCM	Select "**Bitstream**" when the equipment can decode the bitstream (digital form of multi-channel data). Otherwise, select "**PCM**". ● If the bitstream is output to the equipment without a decoder, high levels of noise can be output and may damage your speakers and hearing.
DTS Digital Surround (Only when connected using a digital optical cable ➜ page 21)	● PCM ● Bitstream	
MPEG※ (Only when connected using a digital optical cable ➜ page 21)	● PCM ● Bitstream	
Dynamic Range Compression (Dolby Digital only)	● Off ● On: For clear dialogue when listening at low volume.	
Audio during Search Choose whether to have sound during search	● On ● Off	

※ **For Asia** MPEG is not available.

Display

Menu Language	● English ● Français ● Deutsch ● Italiano ● Español ● Português ● Svenska ● Nederlands **For Asia** ● English ● Français ● Español
On-Screen Messages	● On ● Off

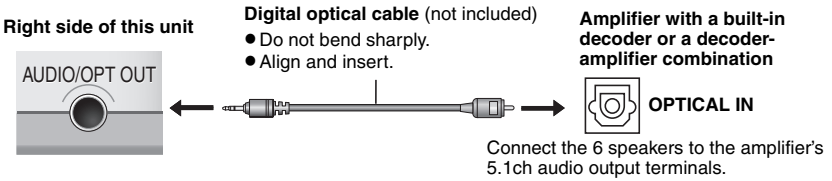
Others

HighMAT Selects the play method for HighMAT discs	● Enable: Plays as HighMAT ● Disable: Plays as WMA/MP3/JPEG
Re-initialize Setting This returns all values in the Setup menus to the default settings.	● Yes: The password screen is shown if "Ratings" (➜ page 19) are set. Please enter the same password. Turn the unit off and on again. ● No

Using this unit with other equipment

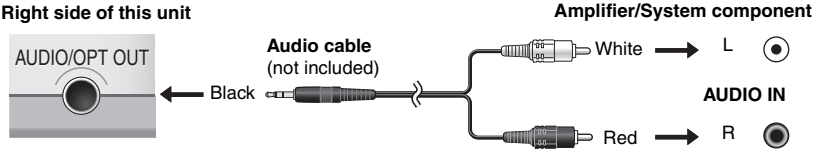
Turn off all equipment before connecting and read the appropriate operating instructions.

Enjoying with 5.1ch audio


Right side of this unit
AUDIO/OPT OUT
Digital optical cable (not included)
● Do not bend sharply.
● Align and insert.
Amplifier with a built-in decoder or a decoder-amplifier combination
OPTICAL IN
Connect the 6 speakers to the amplifier's 5.1ch audio output terminals.

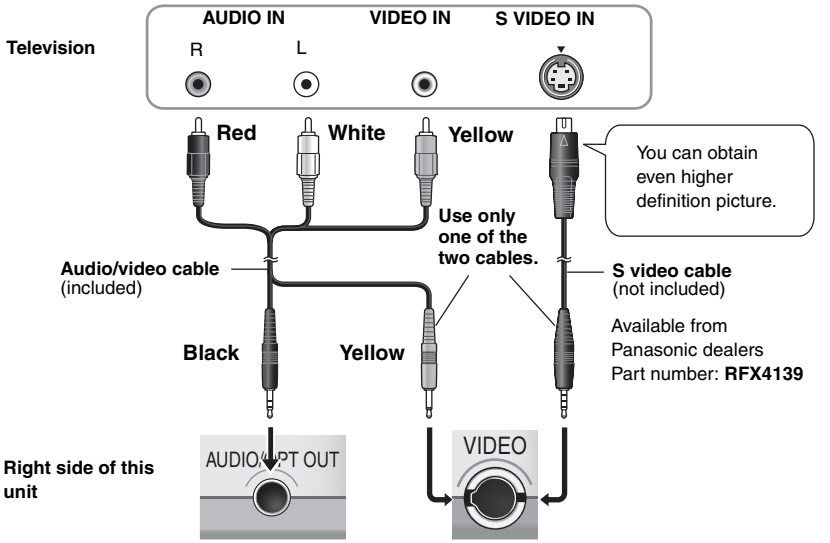
● Change "PCM Digital Output", "Dolby Digital", "DTS Digital Surround" and "MPEG※" (➜ page 20).
● DVD-A Output will be only 2 channels.
※ For Asia MPEG is not available.

Enjoying stereo audio



Television connections

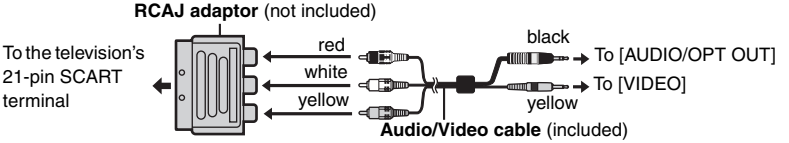
Connect the video output from this unit directly to the television.



- The unit's speakers do not have magnetic shielding. Do not place the unit near televisions, personal computers or other devices easily influenced by magnetism. Do not keep this unit and magnetized cards (bank cards, commuter passes, etc.) close together.
- If you raise the volume on the television while playing this unit, the volume may abruptly become very loud when you switch to a television broadcast. Return the volume to its normal level before changing.

For the United Kingdom, Continental Europe and Russia

Use the RCAJ adaptor (not included) if your TV has a 21-pin SCART terminal.



Battery pack

Checking the remaining battery charge

When the unit is on (➜ page 8) and powered by the battery pack.
Press **[DISPLAY]** 3 times to check on the LCD (Displays for a few seconds).

(Appears automatically when there is a few minutes of charge remaining.)

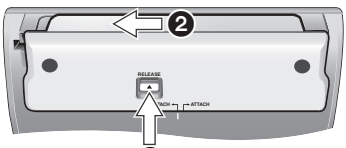
Approximate play times (Hours)

Battery pack	**Play** (at room temperature using headphones)			
	LCD brightness level			**LCD Off**
	−5	0 (factory preset)	+5	
CGR-H701	2.5	2	1.5	4
CGR-H703	10	8	6	16

- The times indicated above may differ depending on use.
- To change the LCD brightness (➜ page 11, Adjusting the picture quality on the LCD).

Detaching

- Turn the unit off before detaching the battery pack.
- The illustrations show connection for CGR-H701. Connect CGR-H703 in the same way.

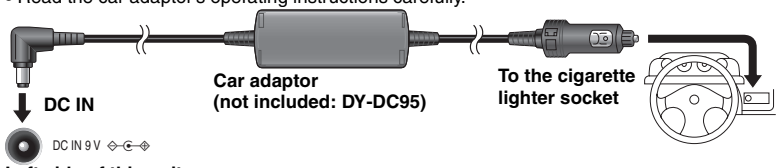


When not using for long periods of time

- Remove the battery pack (➜ see above). (Even when the unit is turned off, there is a small amount of voltage running through the unit, and this may result in a malfunction.)
- Recharge the battery for re-use.

Using a car adaptor

- In the interest of the traffic safety, do not perform operations on this unit or view video software while driving a vehicle.
- Read the car adaptor's operating instructions carefully.



Left side of this unit
Place the unit on a stable surface.

(Right side of this unit)

You can enjoy audio through your car audio system by connecting a car stereo cassette adaptor (not included: RP-CC20) to the headphone jack on the right side of this unit.

FM transmitter DVD-LS55 For Asia

You can enjoy listening to discs through your FM radio channel (e.g. car stereo) by transmitting audio signals from this unit.

1

(Left side of this unit)

Press to switch the FM transmitter on.

On position

2

Play.

3

Adjust the volume using this unit.

- No sound is heard from this unit. (When playing a music CD, adjust to a level near the center of the volume scale on the LCD as the guideline; when playing a DVD movie, etc., adjust to a level near the maximum as the guideline.)

4 **Tune the radio to the 88.3 MHz FM frequency.**

5 **Adjust the volume using the radio.**

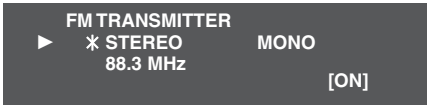
To turn off the FM transmitter

Press **[FM-TM ON/OFF]** to return to the original position.

When this has not been successful

1

Press to display the menu.



2

– Noise is heard

Select "MONO" using [◄ ►] .

– When there is interference with the local FM stations

① Select "88.3 MHz" (factory preset) using [▼] .

② Using [◄ ►] , select a frequency between 88.3 MHz and 90.3 MHz which is not being used by a broadcasting station.

- The frequency can be set in 0.1 MHz increments.

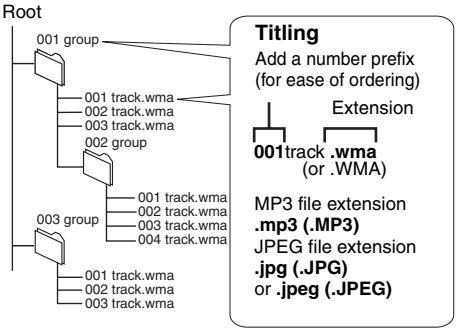
3 **Tune the FM radio into the frequency selected in step 2.**

To exit from the FM transmitter menu

Press **[FM-TM MODE]**.

Creating files on a computer WMA MP3 JPEG

Folders and files created on a computer are displayed as group names and track/picture names on this unit.



Unit limitations

- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
- Groups below the 8th tree level are displayed on the same level as the 8th level.
- The menu display on this unit and on a computer may be different.
- Depending on how a disc was created, the play order may change.
- Files created using packet write cannot be played.

WMA

- You cannot play WMA files that are copy protected.

MP3

- This unit is not compatible with ID3 tags.
- Compatible sampling rate: 8, 11.02, 12, 16, 22.05, 24, 32, 44.1, and 48 kHz

JPEG

- To view JPEG files on this unit:
  - –Take them on a digital camera that meets the DCF Standard (Design rule for Camera File system) Version 1.0. Some digital cameras have functions that are not supported by the DCF Standard Version 1.0 like automatic picture rotation which may render a picture un-viewable.
  - –Do not alter the files in any way or save them under a different name.
- This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF) or play associated sound.

MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.

Specifications

■ Main unit

Discs played:

(1) DVD-RAM (DVD-VR compatible, JPEG formatted discs)
(2) DVD-Video (3) DVD-Audio
(4) Music CD [CD-DA(CD-TEXT compatible)]
(5) Video CD
(6) CD-R/RW [CD-DA (CD-TEXT compatible), Video-CD, SVCD, MP3, WMA, JPEG, HighMAT Level 2 (Audio and Image)]
(7) DVD-R (DVD-Video compatible)
(8) MP3/WMA
Compatible compression rate:
- Between 32 kbps and 320 kbps (MP3)
- Between 48 kbps and 320 kbps (WMA)

(9) JPEG
- Exif Ver 2.1 JPEG Baseline files
- Picture resolution: between 320×240 and 6144×4096 pixels (sub sampling is 4:2:2 or 4:2:0)

Signal system: PAL/PAL60 (NTSC) selectable

LCD screen: 7″ α-Si, TFT wide-screen LCD

Composite-video output:

Output level:	1 Vp-p (75 Ω)
Output terminal:	Mini-jack
Number of terminals:	1 system

S-video output:

Y output level:	1 Vp-p (75 Ω)
C output level:	0.3 Vp-p (75 Ω)
Output terminal:	Mini-jack
Number of terminals:	1 system

(also used for composite-video output)

Audio output:

Output level: 1.5 Vrms (1 kHz, 0 dB, 10 kΩ)
Output terminal: Stereo mini-jack
Number of terminals: 1 system

Audio performance:

(1) Frequency response:
- DVD (linear audio): 4 Hz–22 kHz (48 kHz sampling) 4 Hz–44 kHz (96 kHz sampling)
- DVD-Audio: 4 Hz–88 kHz (192 kHz sampling)
- CD audio: 4 Hz–20 kHz

(2) S/N ratio:
- CD audio: 115 dB

(3) Dynamic range:
- DVD (linear audio): 98 dB
- CD audio: 97 dB

(4) Total harmonic distortion:
- CD audio: 0.008 %

Digital audio output:

Optical digital output: Mini optical terminal
Number of terminals: 1 system
(also used for audio output)

FM transmitter DVD-LS55 For Asia**:**

Frequency Modulation: 88.3 MHz–90.3 MHz (Digital tuning in 0.1 MHz steps)
Output system: Stereo / Mono (selection is possible)

Pickup:

Wave length: 662 nm/785 nm
Laser power: CLASS 3B/CLASS 3B

NORSK

Pickup
Bølgelengde: 662 nm/785 nm
Laserstyrke: Ingen farlig stråling sendes ut (med sikkerhets-beskyttelse)

Power supply: DC 9 V (DC IN terminal)/ DC 7.2 V (Exclusive battery terminal)

Power consumption (using included AC adaptor):
DVD-LS50: 13 W (Unit only:9 W) / Recharging 13 W
DVD-LS55: 13 W (Unit only:9 W) / Recharging 21 W

Battery pack (lithium ion)

CGR-H701 (DVD-LS50 included**):**
Voltage: 7.2 V
Capacity: 2150 mAh

CGR-H703 (DVD-LS55 included**):**
Voltage: 7.2 V
Capacity: 8600 mAh

Dimensions (W×D×H)
(excluding protrusions and battery):
190 mm×165 mm×29.2※1 mm
※1 27.8 mm at lowest point (H=37.8 mm including battery)

Mass (including battery)**:** DVD-LS50: 795 g
DVD-LS55: 1080※2 g
※2 For Asia 1085 g

■ Common

Operating temperature range: +5 to +35 °C

Operating humidity range: 5–90 % RH (no condensation)

AC adaptor:

Power source:	AC 100–240 V, 50/60 Hz
Power consumption:	30 W
DC output:	9 V, 2000 mA

Note

Specifications are subject to change without notice. Mass and dimensions are approximate.

Power consumption in standby mode (using included AC adaptor):
Main unit: 0.5 W

Frequently asked questions

Reference pages are shown in parentheses.

What kind of equipment is necessary to enjoy 5.1ch audio?	Connect to an AV amplifier with a built-in decoder that has 5.1ch audio output terminals. **(21)** **DVD-A**: This unit plays DVD-Audio in 2 channels. You cannot play multi channel surround sound.
Can I play a DVD-Video bought in another country?	You can only play DVD-Video if their region number is the same or includes the same region number as the unit or if the DVD-Video is marked “ALL”. Confirm the region number for the unit on the bottom panel. Check the disc jacket. **(Cover)**
Can I use on an airplane or in a hospital?	Electromagnetic waves that are emitted from this unit may affect equipment on an airplane or in a hospital. Please obey the rules and or instructions indicated by the hospital or airline.
Can I use in a car?	You can use this unit by connecting with the separately sold car adaptor (part no. DY-DC95) for power. Damage may occur if you do not use the specified car adaptor. **(23)**
Can I connect with a computer?	You can enjoy use of the computer as a television monitor when connecting with the AV input terminal on a computer. However, you cannot operate this unit as the peripheral equipment.

Maintenance

To clean this unit, wipe with a soft, dry cloth.

- Use eyeglass cleaner to remove stubborn dirt from the LCD.
- Never use alcohol, paint thinner or benzine to clean this unit.

Maintenance of the lens

- Remove dust carefully with an air blower for camera lenses (optional).
- Recommended product:
  Lens cleaner kit (SZZP1038C)
  (Available from Panasonic dealers.)
- Be careful not to touch the lens with your fingers.

To clean discs

DVD-A, DVD-V, VCD, CD

Wipe with a damp cloth and then wipe dry.

RAM, DVD-R

- Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1, where available).
- Never use cloths or cleaners for CDs etc.

Disc handling precautions

- Do not attach labels or stickers to discs (This may cause disc warping, rendering it unusable).
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not use scratch-proof protectors or covers.
- Do not use the following discs:
  – Discs with exposed adhesive from removed stickers or labels (rented discs etc).
  – Discs that are badly warped or cracked.
  – Irregularly shaped discs, such as heart shapes.

Troubleshooting guide

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, consult your dealer for instructions.

The following do not indicate malfunction.
- Sound from the AC adaptor during recharging.
- The battery pack warming up when recharging or during use.
- The surface and area around the unit becoming warm when used for long periods.

Reference pages are shown in parentheses.

Power

No power.	● Check connections to the AC adaptor or battery pack. **(6)** ● You cannot turn on the unit with the remote control if the unit is powered by the battery pack.
Unit turns off automatically.	● The unit turns off after it has been stopped for about 15 minutes (5 minutes when the unit is powered by the battery pack) to conserve power. Turn the unit on again.
Unit doesn't work when powered by battery pack.	● The unit and battery pack have protection circuitry that activate if they become too hot or too cold. They will not work if this occurs. Use the unit and battery pack between 5 °C and 35 °C.
Cannot charge or the [CHG] indicator fails to light.	● The battery pack can only be recharged when the unit is off. ● The charging time increases when the temperature is too hot or too cold, and charging may not be possible under some circumstances. ● Check connections to the AC adaptor or battery pack. **(6)**
Play time dramatically reduced after recharging.	● The battery pack has reached the end of its service life (It can be recharged about 300 times).

Operation

It takes time before play starts. MP3	● Play may take time to begin when an MP3 track has still picture data. Even after the track starts, the correct play time will not be displayed, however this is normal.
Programmed items are not played. DVD-V	● Some items cannot be played even if you have programmed them.
A menu screen appears during skip or search. VCD	● This is normal for Video CDs.
The on-screen menu shows "2" as a soundtrack option when [AUDIO] is pressed, but the audio does not change. DVD-A	● Even if a second soundtrack isn't recorded, two numbers will normally be shown.
Play restarts from the beginning of the track when soundtrack is changed. DVD-A	● This is normal on DVD-Audio.
In A-B repeat, Point B is automatically set.	● The end of an item becomes point B when it is reached.
Subtitle position is wrong.	● Adjust the position. **(17, "Subtitle Position")**
No subtitles.	● Display the subtitles. **(10)**
You have forgotten your ratings password. Reset all the settings to Factory Preset.	● While stopped, press and hold **[I◀◀]** and **[❚❚]** on the unit and then also press and hold **[►, ON]** on the unit until "Initialized" disappears from the screen. Turn the unit off and on again. All settings will return to the default values.

Operation

No response when any buttons pressed.
- Some discs prohibit certain operations.
- If there is no response at all, the unit may have been affected by lightning or static electricity. Turn the unit off and on again. Alternatively, turn the unit off, disconnect the power source (AC or battery pack), reconnect the power and turn the unit on again.

Play fails to start or stops soon after starting.
- Condensation has formed: Wait 1 to 2 hours for it to evaporate.
- This unit cannot play discs other than those specified. **(5)**
- Clean the disc. **(27)**
- Ensure the disc is inserted correctly. **(8)**
- Check that the disc has something recorded on it.

No response when remote control buttons pressed.
- Check that the battery is installed correctly. **(7)**
- The battery is depleted: Replace it with new ones. **(7)**
- Point the remote control at the remote control sensor and operate. **(7)**

Cannot add markers.
- You cannot add markers while playing a playlist or discs that do not show the elapsed time.

There are already markers. RAM
- The unit reads and displays the markers added with a DVD video recorder.

Sound

There is a lot of noise.
- Move unit away from mobile phones.
- Noise may occur when playing WMA files.

No sound from the unit's speaker.
- The speaker is off if the LCD is closed or headphones are connected.
- Turn up the volume. **(8)**

No sound from other speakers.
- Check all connections and settings. **(20), (21), (22)**

Cannot play multi channel surround sound
- Output is in stereo (PCM) if you have changed the play speed.
- This unit plays DVD-Audio in 2 channels.

Distorted sound.
- Turn Advanced Surround off if this occurs. **(11)**

Piercing noise comes from the speakers.
- If you have connected a digital amplifier which does not include a decoder, be sure to select "PCM" in "Dolby Digital", "DTS Digital Surround" or "MPEG※" in "Audio". **(20)**

Sound effects do not work.
- Dialogue enhancer and Advanced Surround do not work when the unit is outputting bitstream signals. **(20)**
- Advanced Surround does not work if you have changed the play speed. **(16)**
- Some audio effects do not work or have less effect with some discs.

Cannot record to digital recording equipment. (Incorrect sound recorded.)
- You cannot record WMA/MP3.
- You cannot record DVDs that have protection preventing digital recording.
- You cannot record DVDs if the recording equipment cannot handle signals with a sampling frequency of 48 kHz.
- Make the following settings:
  - Advanced Surround: Off **(11)**
  - PCM Digital Output: Up to 48 kHz **(20)**
  - Dolby Digital/DTS Digital Surround/MPEG※: PCM **(20)**

※ For Asia MPEG is not available.

Picture

The LCD is dark.	● Adjust the brightness. **(11)**
Picture distorted.	● Some disruption is normal during SEARCH.
Menu not displayed correctly.	● Restore the zoom ratio to ×1.00. **(17)** ● Set the “Subtitle Position” to 0. **(17)**
Auto zoom function does not work well.	● Turn off TV’s zoom function. ● Use the other preset aspect ratios or manual adjustment. ● Zoom function may not work well, especially in dark scenes and may not work depending on the type of disc.
No picture on the LCD.	● Select a monitor mode other than “OFF” (no picture). **(11, Selecting how to show 4:3 aspect pictures on the LCD)**
Picture doesn’t appear on the television (or the size of the picture seems wrong).	● Check connections. **(22)** ● Check that the television is on. ● Check that the input mode on the television is correct. ● Check the settings in “Video—TV Aspect”. **(20)** ● Turn off the zooming feature on your television if you are using Zoom. **(17)** ● Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder. **(22)**
LCD pixels turn black or radiate different colors.	● The LCD is constructed with precision technology so 99.99 % of the pixels are active, but of the remaining of 0.01 %, there are pixels that may be black or emit light constantly. This phenomenon is not a malfunction.

Displays

“⃠”	● The operation is prohibited by the unit or disc.
No On-Screen display.	● Select “On” for “On-Screen Messages” in Display menu. **(21)**
“Check the disc.”	● Clean the disc. **(27)** ● You inserted a DVD-R that has not been finalized.
“ ERROR 01”	● A problem has occurred with the battery pack. Consult your dealer.
“ ERROR 02”	● The battery pack has been recharging for 12 hours but has failed to recharge for some reason. Recharge again.
“ ERROR 03”	● You are recharging in a location that is too hot or too cold. Recharge at normal temperature (+5 to +35 °C).
“H □□” □□ stands for a number.	● Trouble has occurred. The number appearing after “H” depends on the problem. Turn the unit off and on again. Alternatively, turn the unit off, disconnect the power source (AC or battery pack) reconnect the power and turn the unit on again. If the service number fails to clear, note the service number and consult your dealer.
“No Select”	● Press **[■, –OFF]**, then retry the operation again.

[⏻] and [CHG] indicators

The [⏻] indicator flashes rapidly.	● The unit has malfunctioned. Consult your dealer.
The [⏻] indicator flashes slowly.	● The unit is on and the LCD is closed or the monitor mode is set to “OFF” (no picture). Turn the unit off when you have finished.
The [CHG] indicator flashes rapidly.	● There is a problem with the battery pack. Turn the unit on and check the message on the LCD. **(above)**
The [CHG] indicator flashes slowly.	● Battery pack charge is low. The unit will turn off automatically after a few minutes.

NORSK

ADVARSEL!

DETTE PRODUKTET ANVENDER EN LASER. BETJENING AV KONTROLLER, JUSTERINGER ELLER ANDRE INNGREP ENN DE SOM ER BESKREVET I DENNE BRUKSANVISNING, KAN FØRE TIL FARLIG BESTRÅLING.
DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å REPARERE APPARATET PÅ EGENHÅND. ALT SERVICE OG REPARASJONSARBEID MÅ UTFØRES AV KVALIFISERT PERSONELL.

ADVARSEL:

FOR Å REDUSERE FAREN FOR BRANN, ELEKTRISK STØT ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARATET IKKE UTSETTES FOR REGN, FUKTIGHET, VANNDRÅPER ELLER VANNSPRUT. DET MÅ HELLER IKKE PLASSERES GJENSTANDER FYLT MED VANN, SLIK SOM BLOMSTERVASER, OPPÅ APPARATET.

ADVARSEL!

- **APPARATET MÅ IKKE PLASSERES I EN BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET ANNET LUKKET STED HVOR VENTILASJONSFORHOLDENE ER UTILSTREKKELIGE. SØRG FOR AT GARDINER ELLER LIGNENDE IKKE FORVERRER VENTILASJONSFORHOLDENE, SÅ RISIKO FOR ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET AV OVERHETING UNNGÅS.**
- **APPARATETS VENTILASJONSÅPNINGER MÅ IKKE DEKKES TIL MED AVISER, BORDDUKER , GARDINER OG LIGNENDE.**
- **PLASSER IKKE ÅPEN ILD, SLIK SOM LEVENDE LYS, OPPÅ APPARATET.**
- **BRUKTE BATTERIER MÅ KASSERES UTEN FARE FOR MILJØET.**

Utstyret bør plasseres i nærheten av AC-stikkontakten, og støpslet må være lett tilgjengelig hvis det skulle oppstå problemer.

DETTE APPARATET ER BEREGNET TIL BRUK UNDER MODERATE KLIMAFORHOLD.

SUOMI

VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VAROITUS:

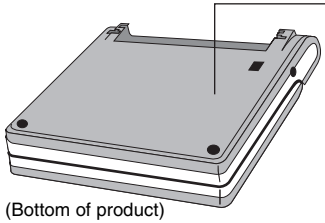
TULIPALO-, SÄHKÖISKUVAARAN TAI TUOTETTA KOHTAAVAN MUUN VAHINGON VÄHENTÄMISEKSI EI LAITETTA SAA ALTISTAA SATEELLE, KOSTEUDELLE, VESIPISAROILLE TAI ROISKEELLE, EIKÄ NESTETTÄ SISÄLTÄVIÄ ESINEITÄ, KUTEN ESIMERKIKSI MALJAKOITA, SAA ASETTAA LAITTEEN PÄÄLLE.

VAROITUS!

- **ÄLÄ ASENNA TAI LAITA TÄTÄ LAITETTA KABINETTITYYPPISEEN KIRJAKAAPPIIN TAI MUUHUN SULJETTUUN TILAAN, JOTTA TUULETUS ONNISTUISI. VARMISTA, ETTÄ VERHO TAI MIKÄÄN MUU MATERIAALI EI HUONONNA TUULETUSTA, JOTTA VÄLTETTÄISIIN YLIKUUMENEMISESTA JOHTUVA SÄHKÖISKU- TAI TULIPALOVAARA.**
- **ÄLÄ PEITÄ LAITTEEN TUULETUSAUKKOJA SANOMALEHDELLÄ, PÖYTÄLIINALLA, VERHOLLA TAI MUULLA VASTAAVALLA ESINEELLÄ.**
- **ÄLÄ ASETA PALAVAA KYNTTILÄÄ TAI MUUTA AVOTULEN LÄHDETTÄ LAITTEEN PÄÄLLE.**
- **HÄVITÄ PARISTOT LUONTOA VAHINGOITTAMATTOMALLA TAVALLA.**

Laite tulee asettaa lähelle verkkopistorasiaa ja pistokkeen täytyy olla sellaisessa asennossa, että siihen on helppo tarttua ongelman sattuessa.

TÄMÄ LAITE ON TARKOITETTU KÄYTETTÄVÄKSI LEUDOSSA ILMASTOSSA.



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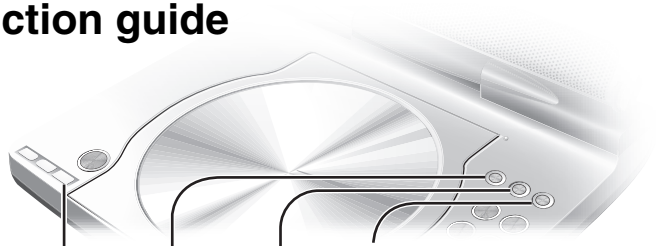
CLASS 1
LASER PRODUCT

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

Useful function guide



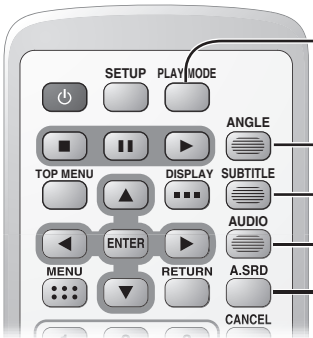
Repeat play (➜ page 10)

Advanced Surround (➜ page 11)

DVD-LS55 **For Asia**
FM transmitter mode (➜ page 24)

Adjusting the picture quality on the LCD (➜ page 11)

Selecting how to show 4:3 aspect pictures on the LCD (➜ page 11)



All group/Program/Random play (➜ page 12)

Angle select and Still picture rotation (➜ page 10)

Changes subtitles (➜ page 10)

Changes soundtracks (➜ page 10)

Advanced Surround (➜ page 11)

CAUTION	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
VARNING	- SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VARO!	- AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VORSICHT	- SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE DANGEREUX EN CAS D'OUVERTURE ET LORSQUE LA SÉCURITÉ EST NEUTRALISÉE. EXPOSITION DANGEREUSE AU FAISCEAU.
注 意	- 打开时及联锁消除时可见及不可见激光辐射。避免激光束照射。

(Bottom of product)
(Produktets underside)
(Tuotteen pohjassa)

Matsushita Electric Industrial Co., Ltd.
Web Site: http://www.panasonic.co.jp/global/

En

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